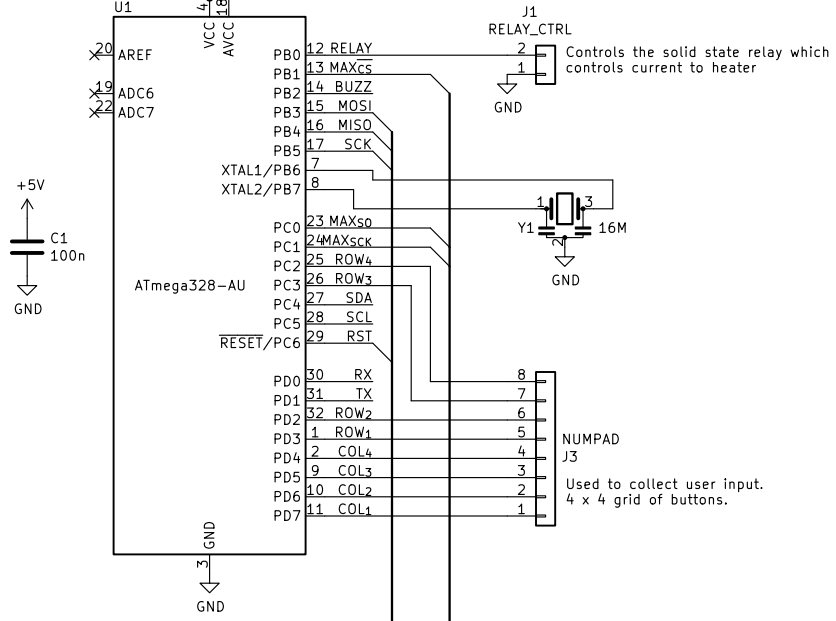
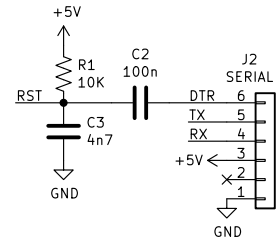


Microcontroller

Configured like an Arduino Nano



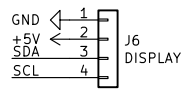
Serial Programming Header



Added to allow potentially "Arduino"-like programming experience

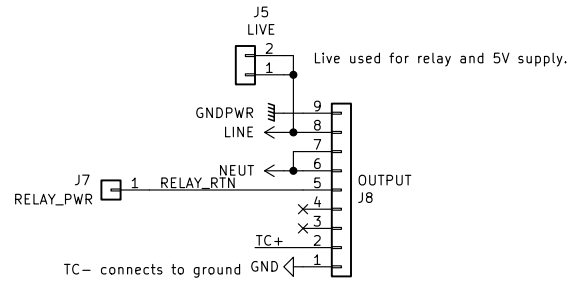
Display Connection

An LCD character display with 20 columns and 4 rows. Only user output interface for the system.



120V Zone

Terminal block where all connections are made. All are at 120VAC, except for the thermocouple terminals.



One bolt is used to ground chassis

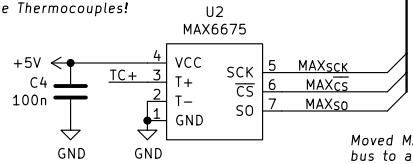
Return from 5V adapter

GNDPWR H1 M3 H2 M3

Thermocouple IC

Used to read in temperature of oven

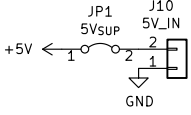
K-Type Thermocouples!



Moved MAX6675 to separate SPI-like bus to avoid issues when programming like with V1

5V Input

Connects to the output of a USB charger. Can be disconnected and reconnected as needed.



General purpose oven board
Intended to control a heater to achieve a two step curing process

Uses a K-Type thermocouple

Title: Oven		
HPVDT	Date: 2022-03-16	Rev: 2
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu21.04.1	Size: USLetter	Sheet: 1/1